	Application No.	Applicant(s)	
			SW.
Notice of Allowability	10/645,075 Examiner	ALFORD ET AL. Art Unit	
,		Artonii	
	Michael V. Datskovskiy	2835	
The MAILING DATE of this communication ap All claims being allowable, PROSECUTION ON THE MERITS herewith (or previously mailed), a Notice of Allowance (PTOL-8 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT of the Office or upon petition by the applicant. See 37 CFR 1.3	IS (OR REMAINS) CLOSED in the 35) or other appropriate communic RIGHTS. This application is sub	is application. If not included cation will be mailed in due co	ourse. THIS
1. This communication is responsive to <u>08/21/2003</u> .		•	
2. ⊠ The allowed claim(s) is/are <u>1-20</u> .			
3. $igotimes$ The drawings filed on <u>21 August 2003</u> are accepted by	the Examiner.		
4. Acknowledgment is made of a claim for foreign priority a) All b) Some* c) None of the: 1. Certified copies of the priority documents had 2. Certified copies of the priority documents had 3. Copies of the certified copies of the priority International Bureau (PCT Rule 17.2(a)). * Certified copies not received:	ave been received. ave been received in Application I	No	n from the
Applicant has THREE MONTHS FROM THE "MAILING DAT noted below. Failure to timely comply will result in ABANDO THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		reply complying with the requ	irements
5. A SUBSTITUTE OATH OR DECLARATION must be sui INFORMAL PATENT APPLICATION (PTO-152) which g			TICE OF
6. CORRECTED DRAWINGS (as "replacement sheets") n (a) including changes required by the Notice of Draftsp 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examin Paper No./Mail Date Identifying indicia such as the application number (see 37 CFI each sheet. Replacement sheet(s) should be labeled as such in the property of the	erson's Patent Drawing Review (—- er's Amendment / Comment or in R 1.84(c)) should be written on the	the Office action of drawings in the front (not the b	ack) of
 DEPOSIT OF and/or INFORMATION about the de attached Examiner's comment regarding REQUIREMEN 			te the
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-94) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SI Paper No./Mail Date 12/05/2003 4. ☐ Examiner's Comment Regarding Requirement for Depos of Biological Material	8) 6. ☐ Interview Sum Paper No./Ma B/08), 7. ☑ Examiner's An	mal Patent Application (PTO- mary (PTO-413), all Date nendment/Comment atement of Reasons for Allow	·
•	Mul Datsbu	MICHAEL DATSKOVSKI PRIMARY EXAMINER	Y

Application/Control Number: 10/645,075

Art Unit: 2835

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. William R. Allen, Reg. No. 48,389 on 06/22/2005.

The application has been amended as follows:

In claim 9, line 1: eliminate the words: "[heat-generating]";

In claim 12:

In line 3: eliminate the word: "[tower,]" and insert the words: "support structure;"; eliminate the words: "[said housing capable]";

In line 4: eliminate the words: "[of generating heat]" a;

In line 7: eliminate the words: "[proximate said substrate]" and insert the words: "inside said housing";

2. The following is an examiner's statement of reasons for allowance: The claims 1-20 are allowable over the prior art of record for at least the reason that the prior art fails to teach or suggest an amplifier module for attachment to a support structure of a base station in a wireless communications network, the amplifier module comprising a substrate; a heat-generating electrical component coupled to said substrate; a low-noise heat generating amplifier transistor coupled to said substrate; and a thermoelectric cooler positioned proximate said substrate and having a cold side thermally coupled

Application/Control Number: 10/645,075

Art Unit: 2835

with said low-noise heat generating amplifier transistor and being thermally isolated from said heat-generating electrical component (claims 1-11 and 15-20); or an amplifier module for attachment to a support structure of a base station in a wireless communications network, the amplifier module comprising a substrate; a housing mounted on a tower and capable of transferring heat; a low-noise heat generating amplifier transistor coupled to said substrate; and a thermoelectric cooler positioned proximate said substrate and having a cold side thermally coupled with said low-noise heat generating amplifier transistor and being thermally isolated from housing (claims 12-14).

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

3. Arai et al (Japan Patent JP3592180011A) teach a low noise amplifier module Figs. 2-4, comprising: a housing 10; a substrate 12; a low noise heat- generating amplifier mounted on said substrate; and a thermoelectric cooler 15 positioned proximate said substrate 12 and having a cold side thermally coupled with said low-noise heat generating amplifier transistor. Arai et al do not teach either a heat-generating electrical component coupled to said substrate, wherein said thermoelectric cooler's cold side being thermally isolated from said heat-generating electrical component; or said amplifier module's housing mounted on a tower and capable of transferring heat; wherein a thermoelectric cooler positioned proximate said substrate

Art Unit: 2835

and having a cold side thermally coupled with said low-noise heat generating amplifier transistor and being thermally isolated from said housing.

- 4. The prior art made of record provided in the PTO Form-892 and not relied upon is considered pertinent to applicant's disclosure.
- 5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael V. Datskovskiy whose telephone number is (571) 272-2040. The examiner can normally be reached on 8-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynn Feild can be reached on (571) 272-2092. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

led battle

Michael V Datskovskiy Primary Examiner

Art Unit 2835

06/24/2005